AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A stepping motor comprising:
- a bracket;
- a housing having a first end coupled to the bracket and a second end having a reduced width compared with the first end, and an <u>integrally formed</u> outer surface extending between the first and second ends;
 - a stator disposed in the housing to form an electric field;
 - a first supporting unit formed on a first end of the bracket;
 - a magnet fixed corresponding to the stator to provide the magnetic field;
 - a second supporting unit supported on the second end of the housing;
 - a rotor supported by the first and second supporting units; and
- a stopper fitted on an opened end of the second end of the housing to support the second supporting unit,

wherein the stopper is coupled to the outer surface of the second end of the housing.

- 2. (Original) The stepping motor according to claim 1, further comprising a third supporting unit formed on a second end of the bracket to support a point of the rotor.
- 3. (Original) The stepping motor according to claim 2, wherein the third supporting unit comprises a hooking part formed by bending the second end of the bracket and a supporting member inserted in the hooking part.
- 4. (Original) The stepping motor according to claim 1, wherein the housing is formed in a single body.
- 5. (Original) The stepping motor according to claim 1, wherein the second supporting unit comprises a ball contacting an end of the rotor;
 - a thrust bearing contacting the ball; and
 - a spring biased between the thrust bearing and the stopper.

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- 6. (Original) The stepping motor according to claim 5, wherein the spring is formed of a coil spring.
- 7. (Original) The stepping motor according to claim 5, wherein the thrust bearing contacts the second end of the housing.
- 8. (Original) The stepping motor according to claim 5, wherein the thrust bearing is formed of synthetic resin.
- 9. (Original) The stepping motor according to claim 1, wherein the stopper is separately prepared and fitted on the second end of the housing.
- 10. (Original) The stepping motor according to claim 1, wherein the stopper is cap-shaped.
- 11. (Original) The stepping motor according to claim 1, wherein the stopper is forcedly fitted or bonded on the second end of the housing.
- 12. (Original) The stepping motor according to claim1, wherein the first supporting unit comprises a hooking part defined by bending an end of the bracket and a bearing installed on a penetrating hole of the hooking part.
- 13. (Original) The stepping motor according to claim 1, further comprising a pocket formed on an inner surface of the stopper.
- 14. (Original) The stepping motor according to claim 1, wherein the stator and the magnet are paired and spaced from each other.
- 15. (Original) The stepping motor according to claim 1, wherein the first end of the housing is coupled to the bracket by a welding or caulking process.

16. (Original) The stepping motor according to claim 1, wherein the second end of the

housing has a diameter identical to that of a penetrating hole formed on the bracket.

17. (Cancelled)

- 18. (Currently Amended) A stepping motor comprising:
- a housing provided with a with an integrally formed guide portion for guiding a second supporting unit, the guide portion having a smaller diameter than the housing;
 - a stator installed in the housing to form an electric field;
- a rotor rotatably supported by the second supporting unit and inserted to be spaced away from the stator;
 - a magnet fixed on the rotor to correspond to the stator;
- a bracket having a third supporting unit in which a first side of the rotor is inserted, contacting an opening portion of the housing and a first supporting unit on which a second side of the rotor is rotatably supported; and
- a stopper coupled to the outer surface of the guide portion in the radial direction of the rotor-to support the second supporting unit.
- 19. (Original) The stepping motor according to claim 18, wherein the housing is formed in a single body.
- 20. (Original) The stepping motor according to claim 18, wherein the guide portion has a reduced diameter compared with the opened portion.
- 21. (Original) The stepping motor according to claim 18, wherein the third supporting unit comprises a hooking part having a penetrating hole and a supporting member inserted in the penetrating hole.

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- 22. (Original) The stepping motor according to claim 18, wherein the second supporting unit comprises a ball contacting an end of the rotor;
 - a thrust bearing contacting the ball; and
- a spring disposed on a rear side of the thrust bearing to attenuate impact from the thrust bearing.
- 23. (Original) The stepping motor according to claim 18, further comprising a stopper coupled to the guide portion to support the second supporting unit.
 - 24. 33. (Cancelled)
- 34. (New) The stepper motor of claim 1, wherein the first end and the second end are formed of the same material.
 - 35. (New) The stepper motor of claim 1, wherein the housing has a uniform thickness.
- 36. (New) The stepper motor of claim 1, wherein the second end is directly contacted with the outer surface.
- 37. (New) The stepper motor of claim 18, wherein the housing and the guide portion are formed of the same material.
- 38. (New) The stepper motor of claim 18, wherein the housing and the guide portion have a uniform thickness.
- 39. (New) The stepper motor of claim 18, wherein the guide portion is directly contacted with the housing.